

WHAT IS CLAIMED IS:

- Sub 21
1. A document retrieval system comprising:
- a document processing engine configured to extract search keys from a data file to identify internal characteristics of said data file;
 - a speech recognition engine configured to convert spoken characteristics associated with certain said files to spoken characteristic data; and
 - a data structure which associates said internal characteristics of a file and any said spoken characteristics of a file with said file in a memory.
2. The document retrieval system of claim 1 further comprising:
- a search engine configured to search for said internal characteristics and any said spoken characteristics within said memory so as to identify files associated with said internal characteristics and any said spoken characteristics.
3. The document retrieval system of claim 1 wherein at least some of said files contain textual information.
4. The document retrieval system of claim 2 further comprising a character recognition engine configured to provide said textual information.
5. The document retrieval system of claim 1 wherein at least some of said files contain image data.
6. The document retrieval system of claim 4 wherein the document processing engine includes an object recognition system.

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7. A method of identifying documents comprising the steps of:
identifying internal characteristics of a file;
converting spoken words associated with said file into spoken characteristics
associated with said file; and
5 creating metadata associating said internal characteristics and said spoken
characteristics with said file.
8. The method of claim 6 further including the step of:
searching said metadata to identify said file.
9. The method of claim 6 wherein said internal characteristics of a file include
textual information.
10. The method of claim 8 further comprising the step of recognizing print
characters to provide said textual information.
11. The method of claim 6 wherein said file contains an image.
12. The method of claim 10 further comprising the step of recognizing and
classifying at least one object depicted in said image.

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15. The image storage system of claim 12 further comprising:
an object recognizer providing identification of objects within said captured images.

17. The image storage system of claim 12 further comprising:
a plurality of text files, each with a corresponding file name;
a document processing engine configured to extract search keys from each of said
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18. The image storage system of claim 15 further comprising:
an object recognizer providing identification of objects within said captured images.

19. The images storage system of claim 15 further comprising a speech
recognition engine configured to convert said spoken information to spoken characteristic
data.

20. The image storage system of claim 15 further comprising a character
recognition engine configured to provide the textual information.

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21. A system for storing documents in an electronic storage media, said system comprising:

means for obtaining from each said document to be stored, data tags pertaining to certain characteristics of said document, said data tags selected from the list of character
5 recognition, semantics processing, object recognition, and voice recognition; and

means for associating said data tags with each said document.

22. The system of claim 19 further comprising:

means for retrieving stored ones of said documents based upon receipt of a data tag associated with said document to be retrieved.

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